2.2 Amplitude, Period and Frequency

Amplitude and Frequency

- y= A sinc B+) 11 y= Acos (B+)

- IAI is the amplitude

 $P = \frac{20}{3}$

f= 1/p

Frequency Index

-n is an arbitrary real number

 $f(t) = A \sin\left(\frac{\alpha \cdot n}{T} + t\right)$, $f(t) = A \cos\left(\frac{\alpha \cdot n}{T} + t\right)$

-n is the frequency index

Sum and Difference Identities

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$$Sin(a-b)t = Sin(a+)cos(bt) - cos(a+) Sin(b+)$$

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$$Sin(a+b)t = Sin(a+)cos(b+)+ cos(a+)sin(b+)$$

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$$(a-b)t = (a)(a+)(a)(b+) + Sin(a+)Sin(b+)$$

$$-(os(a+b)t = (os(a+)cos(b+) - sin(a+)sin(b+)$$